

**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

|   |   |  |
|---|---|--|
| <b>(51) International Patent Classification <sup>5</sup>:</b><br><b>G01N 33/543, C12Q 1/00</b>  | <b>A1</b>   | <b>(11) International Publication Number:</b> <b>WO 94/24561</b><br><b>(43) International Publication Date:</b> 27 October 1994 (27.10.94) |
| <b>(21) International Application Number:</b> PCT/SE94/00343<br><b>(22) International Filing Date:</b> 18 April 1994 (18.04.94)<br><br><b>(30) Priority Data:</b><br>9301270-6      19 April 1993 (19.04.93)      SE<br><br><b>(71)(72) Applicants and Inventors:</b> NILSSON, Kurt [SE/SE];<br>Andjaktsv. 6, S-226 53 Lund (SE). MANDENTUS,<br>Carl-Fredrik [SE/SE]; Strömkarlsv. 36, S-141 42 Huddinge<br>(SE).   | <b>(81) Designated States:</b> CA, CZ, JP, RU, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).<br><br><b>Published</b><br><i>With international search report.<br/>In English translation (filed in Swedish).</i> |  |
| <b>(54) Title:</b> IMMOBILIZED CARBOHYDRATE BIOSENSOR<br><br><b>(57) Abstract</b><br><br>The present application refers to a biosensor in which an immobilized carbohydrate or a derivative thereof is used to generate a detectable signal when a protein, a virus or a cell is bound to the carbohydrate surface. The sensor is an optical sensor, a piezoelectric sensor, an electrochemical electrode or a thermistor. A method of binding carbohydrates to a gold surface is also described. |   |  |